

## Rabbit anti-Human, Mouse CAD Polyclonal Antibody | anti-CAD antibody

Rabbit anti-CAD Antibody, Affinity Purified

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                            |
|-----------|--------|--------------|---------------------------------------------------------|
| AAA211444 | Rabbit | Human, Mouse | Immunohistochemistry, Immunoprecipitation, Western Blot |

### PRODUCT SYNONYMS

CAD; Polyclonal Antibody; Rabbit anti-CAD Antibody; Affinity Purified; Dihydroorotase; GATD4; EIEE50; CAD trifunctional protein; CAD protein; Aspartate carbamoyltransferase; CDG1Z; multifunctional protein CAD; carbamoyl-phosphate synthetase 2; aspartate transcarbamylase; and dihydroorotase; anti-CAD antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                             |
| Reactivity                                    | Human, Mouse                                                                       |
| Clonality                                     | Polyclonal                                                                         |
| Purity/Purification                           | Antigen Affinity Purified                                                          |
| Form/Format                                   | Liquid. Whole IgG. Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide |
| Concentration                                 | 200ug/ml (varies by lot)                                                           |
| Applicable Applications for anti-CAD antibody | IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)            |
| Immunogen                                     | Between 1850 and 1900                                                              |
| Conjugation                                   | Unconjugated                                                                       |
| Preparation and Storage                       | Store at 2-8 degree C<br>Shelf Life: 1 year from date of receipt                   |

### IMAGES



#### WB (Western Blot)

Detection of human and mouse CAD by western blot. Samples: Whole cell lysate (50 ug) from HEK293T, K-562, Jurkat, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-CAD antibody AAA211444 (lot AAA211444-3) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



#### IP (Immunoprecipitation)

Detection of human CAD by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-CAD antibody AAA211444 (lot AAA211444-3) used for IP at 6 ug per reaction. CAD was also immunoprecipitated by a previous lot of this antibody (lot AAA211444-2) and rabbit anti-CAD antibody For blotting immunoprecipitated CAD, AAA211444 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



#### IHC (Immunohistochemistry)

Detection of human CAD by immunohistochemistry. Sample: FFPE section of human ovarian carcinoma. Antibody: Affinity purified rabbit anti-CAD (Cat. No. AAA211444 lot 3) used at a dilution of 1:1,000 (0.2ug/ml). Detection: DAB

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CAD antibody | CAD is an enzyme involved in the first three steps of the de novo synthesis of pyrimidine nucleotides. CAD exhibits multiple catalytic activities and is described as a "fusion" protein that can function as a carbamoylphosphate synthetase, aspartate transcarbamoylase, and dihydroorotase. CAD has been shown to be phosphorylated by mitogen-activated protein (MAP) kinase and protein kinase A (PKA) for the coordination of cell cycle progression and pyrimidine biosynthesis. |
| Product Categories/Family for anti-CAD antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| NCBI GI #                        | 18105007                                                                         |
| NCBI GeneID                      | 790                                                                              |
| NCBI Accession #                 | NP_004332.2                                                                      |
| NCBI GenBank Nucleotide #        | NM_004341.3                                                                      |
| UniProt Accession #              | P27708; Q6P0Q0; D6W552                                                           |
| Molecular Weight                 | 242,984 Da                                                                       |
| NCBI Official Full Name          | CAD protein                                                                      |
| NCBI Official Synonym Full Names | carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase |
| NCBI Official Symbol             | CAD                                                                              |
| NCBI Protein Information         | CAD protein; CAD trifunctional protein; multifunctional protein CAD              |
| UniProt Protein Name             | CAD protein                                                                      |
| UniProt Gene Name                | CAD                                                                              |
| UniProt Entry Name               | PYR1_HUMAN                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cad-antibody-immunohistochemistry-immunoprecipitation-western-blot-elisa/211444>